

## UNIT 4: REPRODUCTIVE ENDOCRINOLOGY, INFERTILITY & RELATED TOPICS

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# Educational Topic 48: Infertility

**Rationale:** The evaluation and management of an infertile couple requires an understanding of the processes of conception and embryogenesis, as well as sensitivity to the emotional stress that can result from the inability to conceive.

**Intended Learning Outcomes:**

A student should be able to:

- Define infertility
- List the causes of male and female infertility
- Describe the evaluation and initial management of an infertile couple
- Describe the psychosocial issues associated with infertility
- Describe management options for infertility
- Describe ethical issues confronted by patients with infertility
- Identify the impact of genetic screening and testing on infertility associated treatments.

### TEACHING CASE

**CASE:** A 37-year-old woman and her 37-year-old male partner present with the complaint of a possible fertility problem. The couple has been married for 2 years. The patient has a 4-year-old daughter from a previous relationship. The patient used birth control pills until one-and-a-half years ago. The couple has been trying to conceive since then and report a high degree of stress related to their lack of success. The patient reports good health and no problems in conceiving her previous pregnancy or in the vaginal delivery of her daughter who has cystic fibrosis. She reports that her periods were regular on the birth control pill, but have been irregular since she discontinued taking them. She reports having periods every 5-7 weeks. She works as a cashier, runs 12-24 miles each week for the last 2 years, and has no history of STIs, abnormal Paps, smoking, alcohol or other drugs. She has had no surgery. She has been taking a multi-vitamin with folic acid since trying to conceive.

The patient's partner also reports good health and reports no problems with erection, ejaculation or pain with intercourse. He has had no prior urogenital infections or exposure to sexually transmitted infections. He has had unprotected sex prior to his current relationship, but has not knowingly conceived. He has no medical problems or past surgery. The couple has vaginal intercourse 3-5 times per week when he is at home.



